06 - ELECTRICAL - TRAFFIC MONITORING STATIONS INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE	
TMS-01	INDEX OF DRAWINGS			
TMS-02	LEGEND AND GENERAL NOTES			
TMS-03	SITE PLAN - TRAFFIC MONITORING STATIONS GLAS-228, GLAS-23 GLAS-234	2, AND		
TMS-04	TYPICAL LAYOUT DETAIL			
TMS-05	TYPICAL LOOP DETECTOR SAW CUT AND LEAD-IN			
TMS-06	CONCRETE HANDHOLE & APPURTENANCES			

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

TRANSPORTATION PRINCIPAL ENGINEER

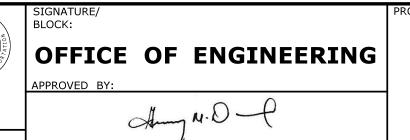
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				THE INFORMATION, INCLUDING ESTIMATED	
				QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	CHE
				INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
				THE CONDITIONS OF ACTUAL QUANTITIES	
				OF WORK WHICH WILL BE REQUIRED.	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/10/2015	

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BY:		
	EWM	
	BY:	BY:

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

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PAVEMENT PRESERVATION
OF ROUTE 3

GLASTONBURY, WETHERSFIELD

PROJECT NO.

159-192

DRAWING NO.

TMS-01

06.01

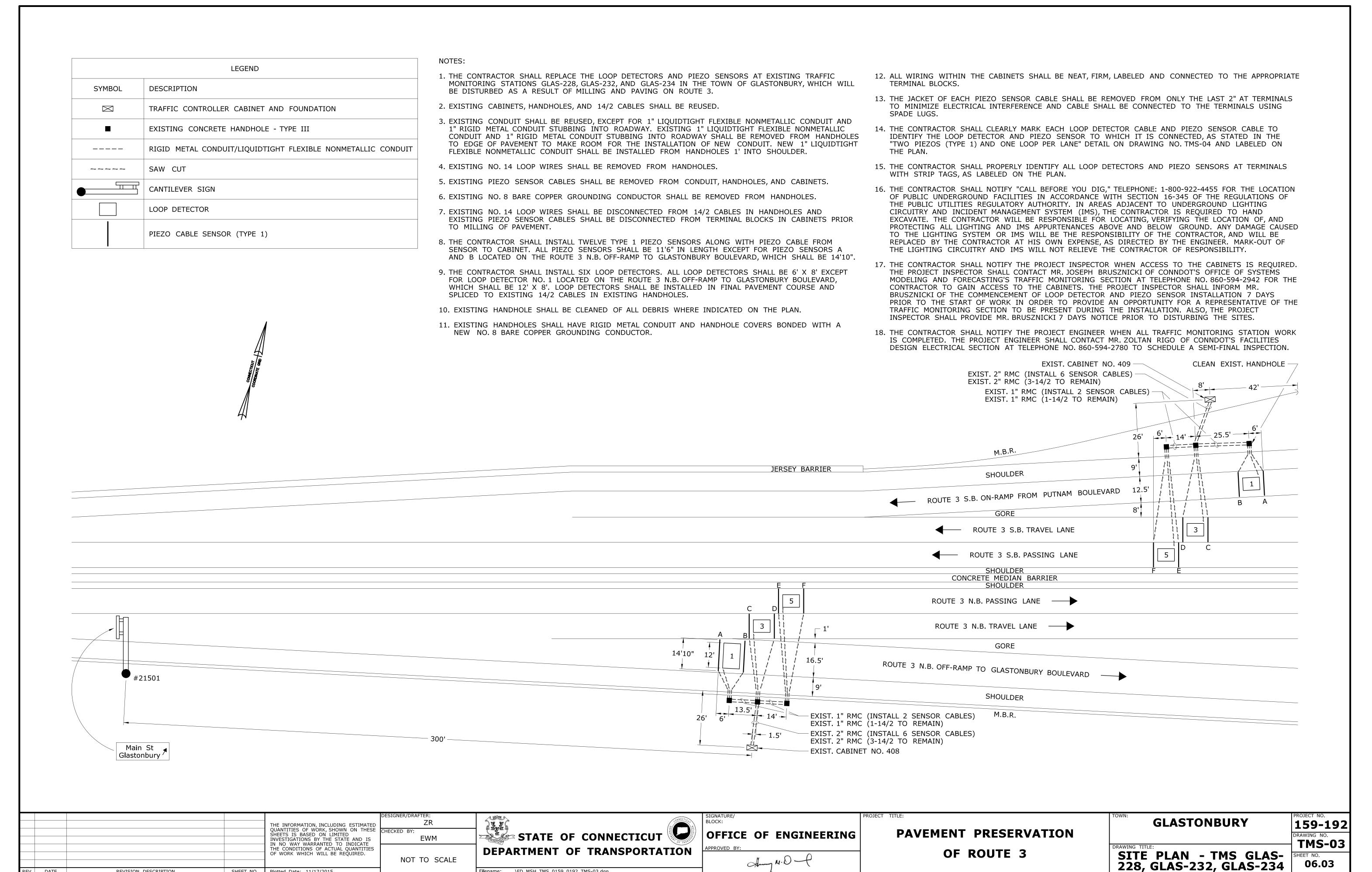
INDEX OF DRAWINGS

	TRAFFIC MONITORING STATION LEGEND
SYMBOL	DESCRIPTION
	TRAFFIC CONTROLLER CABINET AND FOUNDATION
	REMOVE TRAFFIC CONTROLLER CABINET AND FOUNDATION
Ø	CONCRETE HANDHOLE - TYPE III
	EXISTING CONCRETE HANDHOLE
	REMOVE EXISTING CONCRETE HANDHOLE
	RIGID METAL CONDUIT/LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
4-4-4-4-	SAW CUT
•	WOOD POLE
	LIGHT STANDARD
•====	OVERHEAD SIGN
	CANTILEVER SIGN
0 0	SIDE MOUNTED SIGN
	LOOP DETECTOR
	PIEZO CABLE SENSOR (TYPE 2)
	PIEZO CABLE SENSOR (TYPE 1)
	SOLAR POWER SYSTEM

GENERAL NOTES:

- 1. ALL CABINETS TO BE FIELD LOCATED OR AS SHOWN ON PLAN. INSTALL CONCRETE SIDEWALK ON CABINET DOOR SIDE PER STANDARD INSTALLATION DETAIL.
- 2. LOOP AND PIEZO INSTALLATION SHALL COMPLY WITH SECTION 10.00 GENERAL CLAUSES FOR HIGHWAY ILLUMINATION AND TRAFFIC SIGNAL PROJECTS.
- 3. SINGLE CONDUCTORS SHALL BE STRANDED COPPER, INSULATION TYPE THWN AND RATED FOR 600 VOLTS.
- 4. THE REMOVAL OF BRUSH IS TO BE INCLUDED UNDER THE ITEM TRAFFIC CONTROLLER CABINET BASE MOUNTED.
- 5. RIGID METAL CONDUIT IN CONCRETE HANDHOLES SHALL BE BONDED WITH NO. 8 BARE COPPER GROUNDING CONDUCTOR.
- 6. ANY UNUSED CONDUIT SHALL BE CAPPED WITH A MALLEABLE IRON CAP.
- 7. THE CONTRACTOR SHALL PROVIDE THE STATE A COMPLETE SET OF REPRODUCIBLE AS-BUILT DRAWINGS CLEARLY INDICATING ANY DEVIATIONS FROM THE DESIGN AS SHOWN ON THESE DRAWINGS.
- 8. THE CONTRACTOR SHALL SCHEDULE WORK TO AVOID OTHER HIGHWAY PROJECTS IN AFFECTED WORK AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OTHER HIGHWAY PROJECTS IN THE AREA.
- 9. THE STATE SHALL RESERVE THE RIGHT TO PRIORITIZE SITES AND SCHEDULE SITE CONSTRUCTION SEQUENCE TO AVOID CONFLICTS WITH OTHER HIGHWAY PROJECTS.
- 10. ALL HANDHOLES SHALL BE LOCATED APPROXIMATELY 4' OFF EDGE OF ROAD. HANDHOLES SHALL NOT BE INSTALLED DIRECTLY UNDER GUIDE RAIL OR ON TOP OF UNDERGROUND LIGHTING CIRCUITRY AND INCIDENT MANAGEMENT SYSTEM CONDUIT.
- 11. THE CABINET DOOR SHALL BE LOCATED SO THE DETECTORS AND SENSORS ARE VISIBLE WHILE FACING THE CABINET OPENING.
- 12. ALL TRAVEL LANES ARE 12' UNLESS NOTED.
- 13. ALL TEMPORARY REMOVAL AND/OR RELOCATION OF GUIDE RAIL OR FENCING SHALL BE CONSIDERED INCLUDED IN THE GENERAL COST OF THE WORK.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE	DESIGNER/DRAFTER: ZR CHECKED BY:	SIGNATURE/ BLOCK:	PROJECT TITLE:	GLASTONBURY,	PROJECT NO. 159-192
SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	OFFICE OF ENGINEERING APPROVED BY:		WETHERSFIELD DRAWING TITLE:	TMS-02
OF WORK WHICH WILL BE REQUIRED.		Amy N.D.	OF ROUTE 3	LEGEND AND GENERAL NOTES	SHEET NO. 06.02
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 10/14/2015	Filename:\FD_MSH_DET_0159_0192_TMS-02.dgn	l			

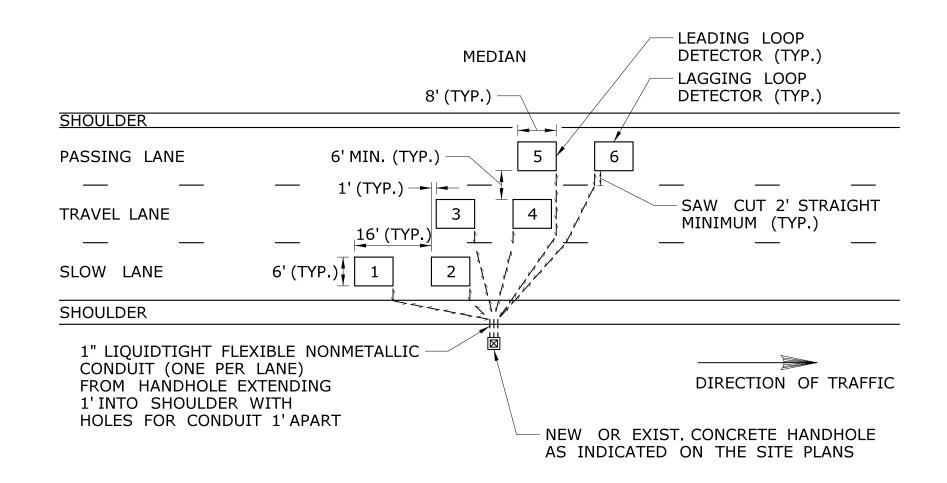


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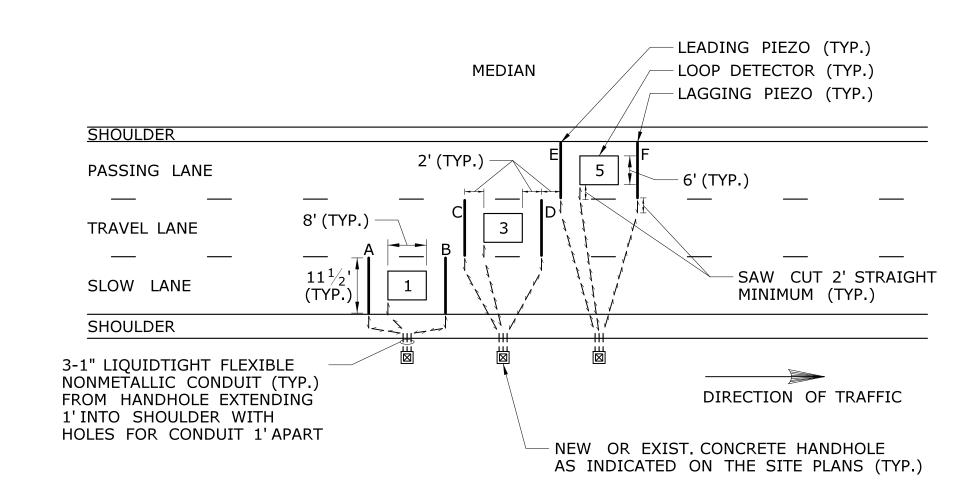
SHEET NO. Plotted Date: 11/17/2015



- 1. LOOP DETECTORS TO BE 6' X 8', 4 TURNS EACH, UNLESS NOTED.
- 2. LOOP DETECTORS TO BE INSTALLED IN THE CENTER OF EACH LANE, UNLESS NOTED.
- 3. LOOP DETECTORS TO BE FIELD LOCATED SO THAT NO SAW CUTS WILL BE MADE THROUGH CONCRETE EXPANSION JOINTS OR POOR PAVEMENT.
- 4. ALL SAW CUT HOME RUNS SHALL BE A MINIMUM 1' APART.
- 5. LOOP CABLES SHALL HAVE 2' OF SLACK IN HANDHOLES.
- 6. ALL LEAD-IN WIRE PAIRS SHALL BE TWISTED TOGETHER FIVE (5) TURNS PER FOOT WHEN IN CONDUIT.
- 7. ALL LOOP DETECTOR LEADS SHALL BE COLOR CODED WITH TAPE IN CABINET, HANDHOLES, AND JUNCTION BOXES AS FOLLOWS: LEADING LOOPS = 1 BAND OF TAPE LAGGING LOOPS = 2 BANDS OF TAPE

LOOP NO.	TAPE COLOR
1, 2	RED
3, 4	BLUE
5, 6	ORANGE
7, 8	YELLOW
9, 10	BROWN
11, 12	PURPLE
13, 14	GRAY
15, 16	PINK

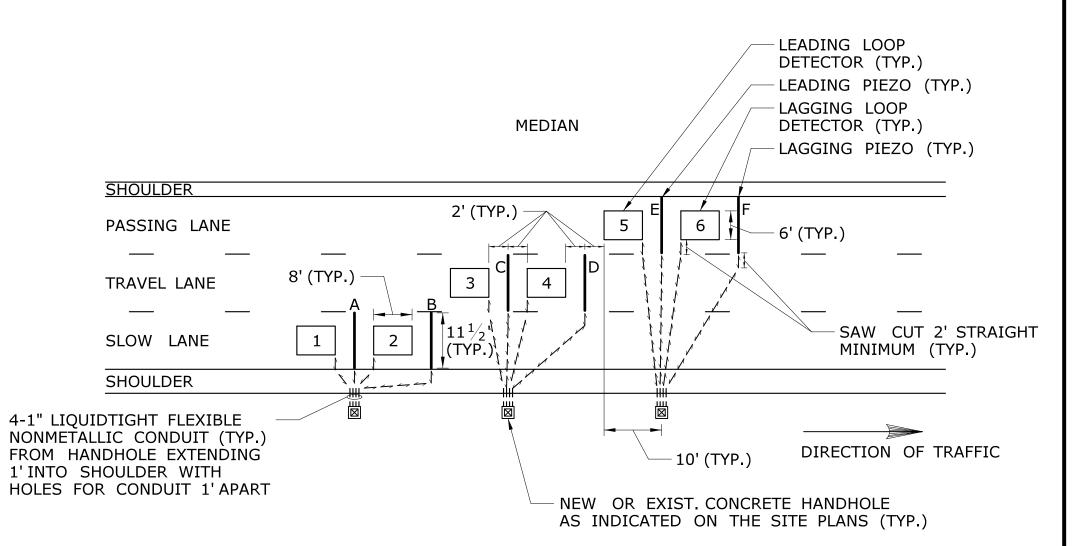
TWO LOOPS PER LANE



- 1. LOOP DETECTORS TO BE 6' X 8', 4 TURNS EACH, EXCEPT FOR LOOP DETECTOR NO. 1 LOCATED ON THE ROUTE 3 N.B. OFF-RAMP TO GLASTONBURY BOULEVARD, WHICH SHALL BE 12' X 8', 4 TURNS.
- 2. PIEZO SENSORS TO BE 11'6" IN LENGTH EACH, EXCEPT FOR PIEZO SENSORS A AND B LOCATED ON THE ROUTE 3 N.B. OFF-RAMP TO GLASTONBURY BOULEVARD, WHICH SHALL BE 14'10" IN LENGTH.
- 3. LOOP DETECTORS AND PIEZO SENSORS TO BE INSTALLED IN THE CENTER OF EACH LANE, UNLESS NOTED.
- 4. LOOP DETECTORS AND PIEZO SENSORS TO BE FIELD LOCATED SO THAT NO SAW CUTS WILL BE MADE THROUGH CONCRETE EXPANSION JOINTS OR POOR PAVEMENT.
- 5. ALL SAW CUT HOME RUNS SHALL BE A MINIMUM 1' APART. 6. LOOP CABLES SHALL HAVE 2' OF SLACK IN HANDHOLES.
- 7. ALL LEAD-IN WIRE PAIRS SHALL BE TWISTED TOGETHER FIVE (5) TURNS PER FOOT WHEN IN CONDUIT.
- 8. ALL LOOP DETECTOR & PIEZO SENSOR LEADS SHALL BE COLOR CODED WITH TAPE IN CABINET, HANDHOLES, AND JUNCTION BOXES AS FOLLOWS: LEADING LOOPS & PIEZOS = 1 BAND OF TAPE LAGGING LOOPS & PIEZOS = 2 BANDS OF TAPE

LOOP NO.	PIEZO	TAPE COLOR
1, 2	A, B	RED
3, 4	C, D	BLUE
5, 6	E, F	ORANGE
7, 8	G, H	YELLOW
9, 10	I, J	BROWN
11, 12	K, L	PURPLE
13, 14	M, N	GRAY
15, 16	O, P	PINK

TWO PIEZOS (TYPE 1) AND ONE LOOP PER LANE



- 1. LOOP DETECTORS TO BE 6' X 8', 4 TURNS EACH, UNLESS NOTED.
- 2. LOOP DETECTORS AND PIEZO SENSORS TO BE INSTALLED IN THE CENTER
- OF EACH LANE, UNLESS NOTED. 3. LOOP DETECTORS AND PIEZO SENSORS TO BE FIELD LOCATED SO THAT NO SAW CUTS
- WILL BE MADE THROUGH CONCRETE EXPANSION JOINTS OR POOR PAVEMENT.
- 4. ALL SAW CUT HOME RUNS SHALL BE A MINIMUM 1' APART.

15, 16

- 5. LOOP CABLES SHALL HAVE 2' OF SLACK IN HANDHOLES. 6. ALL LEAD-IN WIRE PAIRS SHALL BE TWISTED TOGETHER FIVE (5) TURNS PER FOOT
- WHEN IN CONDUIT. 7. ALL LOOP DETECTOR & PIEZO SENSOR LEADS SHALL BE COLOR CODED WITH TAPE IN CABINET, HANDHOLES, AND JUNCTION BOXES AS FOLLOWS:
- LEADING LOOPS & PIEZOS = 1 BAND OF TAPE LAGGING LOOPS & PIEZOS = 2 BANDS OF TAPE

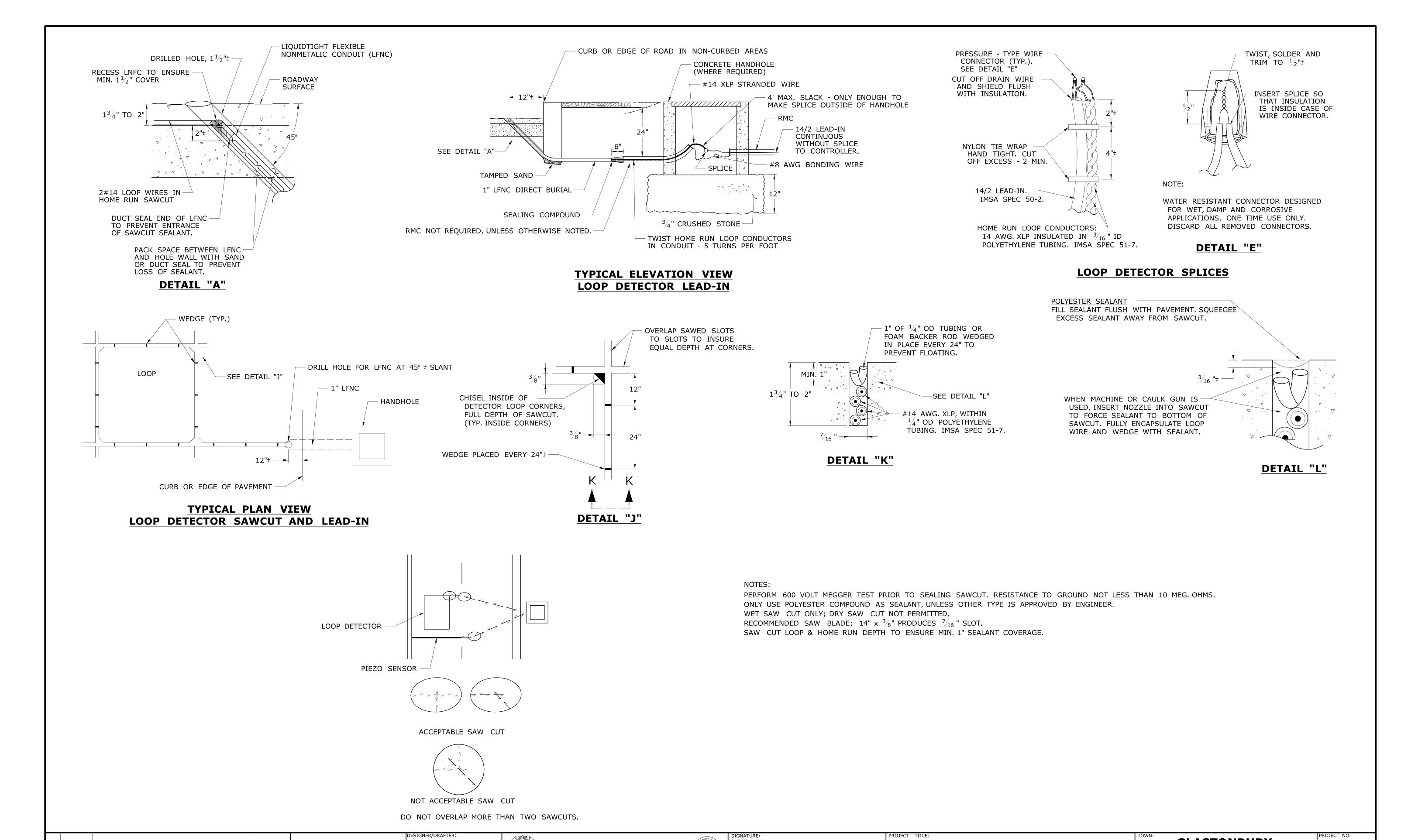
LOOP NO. PIEZO TAPE COLOR 1, 2 C, D BLUE 3, 4 5, 6 ORANGE 7, 8 YELLOW 9, 10 BROWN PURPLE 11, 12 13, 14 M, N GRAY

TWO PIEZOS (TYPE 1) AND TWO LOOPS PER LANE

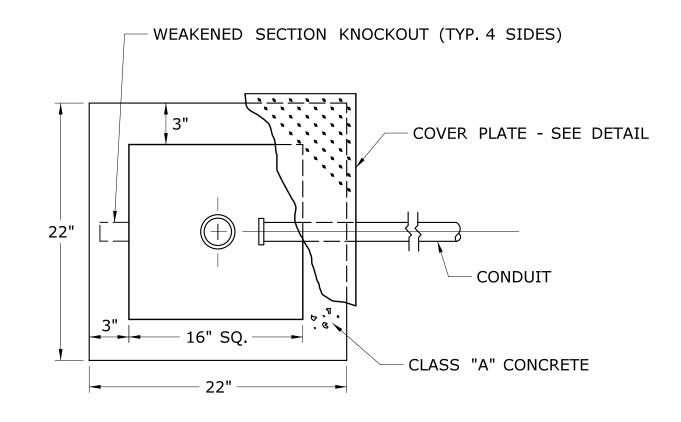
O, P

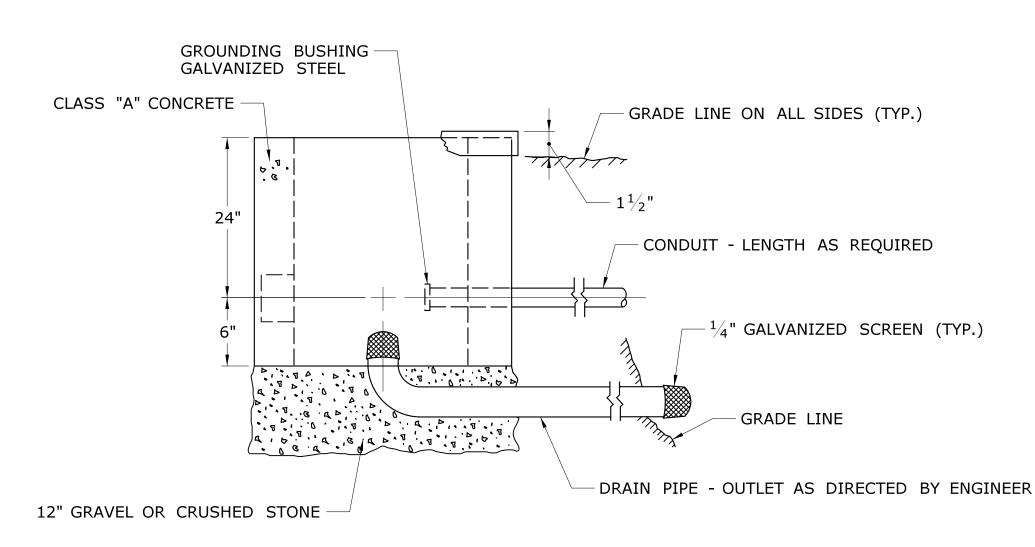
PINK

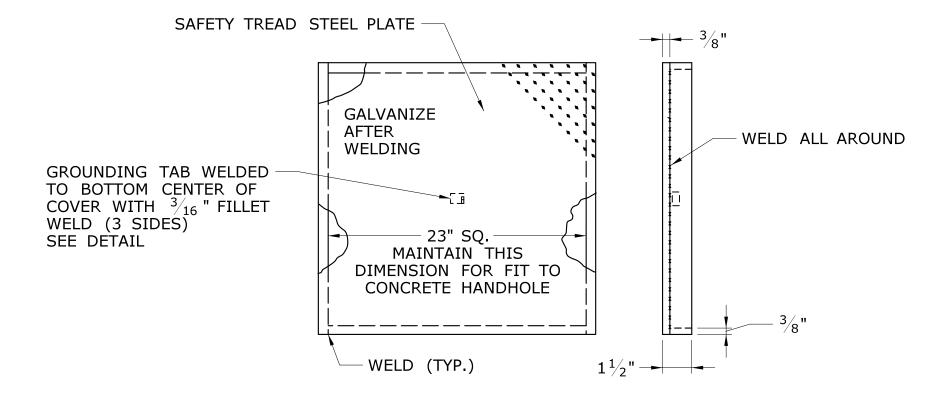
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIONS BY THE STATE AND IS IN NO. WAR WARRANTED TO INDICATE	DESIGNER/DRAFTER: ZR CHECKED BY: EWM	STATE OF CONNECTICUT	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: PAVEMENT PRESERVATION	GLASTONBURY, WETHERSFIELD	PROJECT NO. 159-192 DRAWING NO. TMS-04
THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	NOT TO SCALE	DEPARTMENT OF TRANSPORTATION	APPROVED BY:	OF ROUTE 3	TYPICAL LAYOUT DETAIL	SHEET NO. 06.04
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OF WORK WHICH WILL BE REQUIRED.	NOT TO SCALE	DEPARTMENT OF TRANSPORTATION	Amy M.D.	OF ROUTE 3	TYPICAL LOOP DETECTOR SAW CUT AND LEAD-IN	
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 10/14/2015		Filename:\FD_MSH_DET_0159_0192_TMS-05.dgn			SAW CUT AND LEAD-IN	00.00

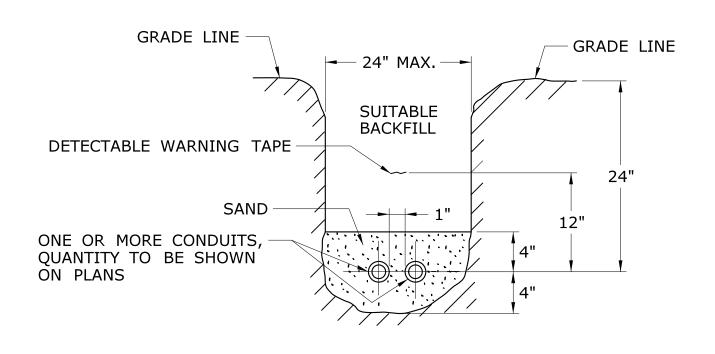




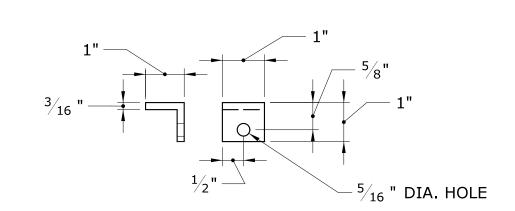


COVER PLATE

CONCRETE HANDHOLE - TYPE III



BURIED CONDUIT



STEEL GROUNDING TAB

NOTE:

1. ATTACH 6' LENGTH OF NO. 8 GROUND WIRE
TO GROUNDING TAB WITH ONE HOLE LUG,

1/4"-20 x 3/4" LG. SST HEX HEAD BOLT,
AND SST FLAT WASHER. ATTACH FREE END
OF GROUND WIRE TO NO. 8 BARE GROUND
WIRE IN HANDHOLE.

2. GROUT AROUND ALL CONDUITS.

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OF	WORK WHICH WILL BE REQUIRED. NOT TO SCALE		Amy N.O.	OF ROUTE 3	CONCRETE HANDHOLE & APPURTENANCES	SHEET NO. 06.06
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